



SDMS DocID 2189758



(b) (4)

z@tetrattech.c
om>

10/31/2007 02:12 PM

To Mitch Cron/R3/USEPA/US@EPA

cc

bcc

Subject RE: FW: Fw: R32697 Data -Additionally R32761 & R32831

Mitch- just got this from the guys in Aiken- basically, the daughter products will be accounted for in the risks and we don't need quantification of Y-90.

Secular equilibrium is a situation in which the quantity of a radioactive isotope remains constant because its production rate (due, e.g., to decay of a parent isotope) is equal to its decay rate. Secular equilibrium can only occur in a radioactive decay chain if the half-life of the daughter radionuclide B (Y-90 = 64 hours) is much shorter than the half-life of the parent radionuclide A (Sr-90 = 27.7 years). In such a situation, the decay rate of A, and hence the production rate of B, is approximately constant, because the half-life of A is very long compared to the timescales being considered. The quantity of radionuclide B builds up until the number of B atoms decaying per unit time becomes equal to the number being produced per unit time; the quantity of radionuclide B then reaches a constant, equilibrium value. The quantity of radionuclide B when secular equilibrium is reached is determined by the quantity of its parent A and the half-lives of the two radionuclide. Hence, the quantity of Y-90, when in secular equilibrium with Sr-90, is equal to the Sr-90 concentration.

From: Cron.Mitch@epamail.epa.gov [mailto:Cron.Mitch@epamail.epa.gov]

Sent: Wednesday, October 31, 2007 1:52 PM

To: (b) (4)

Subject: Re: FW: Fw: R32697 Data -Additionally R32761 & R32831

ok - when you know more, let me know

Mitch Cron
Remedial Project Manager
U.S. Environmental Protection Agency
Mail Code 3HS22
1650 Arch Street
Philadelphia, PA 19103-2029
(215) 814-3286
cron.mitch@epa.gov

"Frebowitz, Andy"
<Andy.Frebowitz@tetrattech.com>
10/31/2007 06:06 AM MST
To Mitch Cron/R3/USEPA/US@EPA
cc
bcc
Subject FW: Fw: R32697 Data -Additionally R32761 & R32831

Mitch- waiting to hear from Phil, but see below from Russ.

Andy

From: Sloboda, Russell
Sent: Tuesday, October 30, 2007 4:47 PM
To: (b) (4)
Subject: RE: Fw: R32697 Data -Additionally R32761 & R32831

We would be OK for analytical data only for Sr-90 and not Y-90.

Sr-90 (the parent) has a half-life of 28.79 years.

Y-90 (the daughter) has a half-life of 64 hours, so it will be in secular equilibrium with Sr-90, the latter of which decays very slowly.

Therefore, the RESRAD modeling program will not need a starting concentration for Y-90 because Y-90 will automatically be included as a daughter product over the exposure period.

From: (b) (4)
Sent: Tuesday, October 30, 2007 4:08 PM
To: Young, Phil; Sloboda, Russell
Subject: FW: Fw: R32697 Data -Additionally R32761 & R32831

See below, do we need Y-90 quantified?

From: Cron.Mitch@epamail.epa.gov [<mailto:Cron.Mitch@epamail.epa.gov>]
Sent: Tuesday, October 30, 2007 6:10 AM
To: Cron.Mitch@epamail.epa.gov
Cc: (b) (4)
Subject: Re: Fw: R32697 Data -Additionally R32761 & R32831

andy: have a look below- let me know what you think.

Mitch Cron
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Philadelphia, PA 19103-2029
(215) 814-3286
cron.mitch@epa.gov

[IMAGE]

[IMAGE]
E]

[IMAGE]

Mitch Cron/R3/USEPA/US 10/29/2007 10:47 AM	To	frebowitza@ttnus.com
	[IMAG E] cc	[IMAGE]
	[IMAG E] bcc	[IMAGE]
	[IMAG E] Subject	[IMAGE] Fw: R32697 Data -Additionally R32761 & R32831
	[IMAG E]	[IMAGE]

Andy: The following statement from Tanya is the issue here:

We do not provide a Y-90 number, only Sr-90.

I believe that when Sr-90 decays, Y-90 is created and creates a risk. If we have the Sr-90 number, is it critical to have the Y-90 number? Can you discuss this with Phil/Lawson and your risk assessor (Dawn is on annual leave).

Thanks, let me know what you find out,

Mitch

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Philadelphia, PA 19103-2029
(215) 814-3286
cron.mitch@epa.gov

----- Forwarded by Mitch Cron/R3/USEPA/US on 10/29/2007 11:44 AM -----

John Kwedar/ESC/R3/	[I M A G	[IMAGE]
		Mitch Cron/R3/USEPA/US@EP

USEPA/ US 10/29/2007 11:33 AM	E] To		A
	I M A G E] cc		[IMAGE]
	I M A G E] Subject		[IMAGE] Fw: R32697 Data -Additionally R32761 & R32831
	[IMAGE]		[IMAGE]

Mitch:

Tonya is sending a confirmation (herein forwarded) of what is scheduled for NAREL. The two requests that are covering this sampling event are R32761 (being currently covered by Sidney Ozer), and R32831(scheduled to go to NAREL).

I see no problem with Tonya's note except a question relative to her statement dealing with Y-90 and Sr-90. The thorium analyses should be covered by Sidney's part of the acquisition. Please confirm.

Thank you,

John Kwedar
Client Services Team-ASQAB
EPA Region III
701 Mapes Road
Ft. Meade, MD 20755-5350
410-305-3021(voice)
410-305-3095(fax)
kwedar.john@epa.gov

----- Forwarded by John Kwedar/ESC/R3/USEPA/US on 10/29/2007 11:25 AM -----

Tonya Hudson/ MT	I M A G E] To		[IMAGE] John Kwedar/ESC/R3/USEPA/US @EPA

<p>G/U SEP A/U S 10/2 9/20 07 10:2 7 AM</p>	<p>[IM AG E] cc</p>	<p>[IMAGE] Annette Lage/ESC/R3/USEPA/US@E PA, Dan Slizys/ESC/R3/USEPA/US@ EPA, Fred Foreman/ESC/R3/USEPA/US @EPA, Judy Snyder/ESC/R3/USEPA/US@ EPA, Khin-Cho Thaung/ESC/R3/USEPA/US @EPA, Mitch Cron/R3/USEPA/US@EPA, Robin Faux-Williams/R3/USEPA/U S@EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US @EPA, Sidney Ozer/R3/USEPA/US@EPA, Victor Yastrop/ESC/R3/USEPA/US @EPA</p>
	<p>[IM AG E] Subject</p>	<p>[IMAGE] Re: R32697 Data -Additionally R32761 & R32831</p>
	<p>[IMAGE]</p>	<p>[IMAGE]</p>

John,

Please confirm that the following is the list of radionuclides you are requesting:

Co-60
Cs-137
Pb-210
H-3 (water only)
Sr-89/90
U-238
Np-237
Am-241
Ra-226.

We do not provide a Y-90 number, only Sr-90.

I also want you to know that thorium **IS NOT** marked on the NAREL PAF, and therefore we are not scheduling these samples for thorium analysis. Please confirm that you do not want this round of samples analyzed for thorium.

Thanks,
Tonya

Tonya Hudson
334-270-3433
Fax 334-270-3454
hudson.tonya@epa.gov

Show details for John Kwedar/ESC/R3/USEPA/US
Hide details for John Kwedar/ESC/R3/USEPA/US

John Kwedar/ESC/R3/USEPA/US 10/22/2007 10:25 AM	[IMAGE] To	[IMAGE] Robin Faux-Williams/R3/USEPA/US@EPA
	[IMAGE] cc	[IMAGE] Annette Lage/ESC/R3/USEPA/US@EPA, Dan Slizys/ESC/R3/USEPA/US@EPA, Fred Foreman/ESC/R3/USEPA/US@EPA, Judy Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho Thaung/ESC/R3/USEPA/US@EPA, Mitch Cron/R3/USEPA/US@EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US@EPA, Sidney Ozer/R3/USEPA/US@EPA, Tonya Hudson/MTG/USEPA/US@EPA, Victor Yastrop/ESC/R3/USEPA/US@EPA
	[IMAGE] E]	[IMAGE] Re: R32697 Data

	Subject	-Additionally R32761 & R32831
	[IMAGE]	[IMAGE]

Robin:

An additional \$10K will now be required.

Thank you,

John Kwedar
 Client Services Team-ASQAB
 EPA Region III
 701 Mapes Road
 Ft. Meade, MD 20755-5350
 410-305-3021(voice)
 410-305-3095(fax)
 kwedar.john@epa.gov

Show details for Robin Faux-Williams/R3/USEPA/USRobin Faux-Williams/R3/USEPA/US
 Hide details for Robin Faux-Williams/R3/USEPA/USRobin Faux-Williams/R3/USEPA/US

Robin Faux-Williams/R3/USEPA/US 10/22/2007 11:06 AM	[IMAGE]	[IMAGE]
	John Kwedar/ESC/R3/USEPA/US@EPA	
	[IMAGE]	[IMAGE]
	Annette Lage/ESC/R3/USEPA/US@EPA, Dan Slizys/ESC/R3/USEPA/US@EPA, Fred Foreman/ESC/R3/USEPA/US@EPA, Judy Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho Thaung/ESC/R3/USEPA/US@EPA, Mitch Cron/R3/USEPA/US@EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US@EPA, Sidney	

		Ozer/R3/USEPA/US@EPA, Tonya Hudson/MTG/USEPA/US @EPA, Victor Yastrop/ESC/R3/USEPA/U S@EPA
	[I M AG E] Subject	[IMAGE] Re: R32697 Data -Additionally R32761 & R32831
	[IMAGE]	[IMAGE]

Hi John. The funding has arrived for Safety Light. Is \$670K still the number? Let me know. I will complete the PR once I hear from you.

Robin

Show details for John Kwedar/ESC/R3/USEPA/US
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John Kwedar/ESC/R3/USEPA/US 10/11/2007 10:33 AM	[I M AG E] To	[IMAGE] Tonya Hudson/MTG/USEPA/US@ EPA
	[I M AG E] cc	[IMAGE] Annette Lage/ESC/R3/USEPA/US@ EPA, Dan Slizys/ESC/R3/USEPA/US @EPA, Judy Snyder/ESC/R3/USEPA/US @EPA, Khin-Cho Thaung/ESC/R3/USEPA/US @EPA, Ruth-Ann Donovan/ESC/R3/USEPA/U S@EPA, Victor Yastrop/ESC/R3/USEPA/US @EPA, Mitch Cron/R3/USEPA/US@EPA, Sidney Ozer/R3/USEPA/US@EPA, Robin

		Faux-Williams/R3/USEPA/US@EPA, Fred Foreman/ESC/R3/USEPA/US@EPA	
	[IMAGE] Subject	[IMAGE] Re: R32697 Data -Additionally R32761 & R32831 <u>Robin Faux-Williams</u>	
	[IMAGE]	[IMAGE]	[IMAGE]

Tonya:

Many thanks-I am herein attaching the final formal request for Safety Light (R32831) going to NAREL that we have been recently discussing. Please send whatever additional required paperwork to complete this process. I will meanwhile herein pursue the actual sampling dates since monies for the remainder of the massive request that will be sent out , are currently on hold.

Mitch:

In lieu of the monies delay (and I am herein asking Finance as to its status), is there any actual tentative sampling date currently proposed? Sidney currently has the other paperwork for the remainder of this request in the works with Hq.

Robin:

Any idea when the funding (Aprx. \$670,000.00) will be now available for this request?

Thank you,

John Kwedar
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Ft. Meade, MD 20755-5350
410-305-3021(voice)
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kwedar.john@epa.gov

Show details for Tonya Hudson/MTG/USEPA/US
Hide details for Tonya Hudson/MTG/USEPA/US

Tonya Hudson/MTG/USEPAS 10/11/2007 10:02 AM	[IMAGE] To	[IMAGE] John Kwedar/ESC/R3/USEPA/US@EPA
	[IMAGE] cc	[IMAGE] Annette Lage/ESC/R3/USEPA/US@EPA, Dan Slizys/ESC/R3/USEPA/US@EPA, Judy Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho Thaung/ESC/R3/USEPA/US@EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US@EPA, Victor Yastrop/ESC/R3/USEPA/US@EPA
	[IMAGE] Subject	[IMAGE] Re: R32697 Data
	[IMAGE]	[IMAGE]

John,

All three of the actinides analysts currently have samples assigned to them. I will go ahead and assign these to them so they can start as soon as they finish their other batches.

Tonya

Tonya Hudson

334-270-3433

Fax 334-270-3454

hudson.tonya@epa.gov

Show details for John Kwedar/ESC/R3/USEPA/USJohn Kwedar/ESC/R3/USEPA/US

Hide details for John Kwedar/ESC/R3/USEPA/USJohn Kwedar/ESC/R3/USEPA/US

John Kwedar	[IMAGE]	[IMAGE]
-------------	---------	---------

ar/ES C/R3/ USEP A/US 10/11/ 2007 05:23 AM	E] To		Tonya Hudson/MTG/USEPA/US@ EPA
	[IM AG E] cc		[IMAGE] Annette Lage/ESC/R3/USEPA/US@ EPA, Dan Slizys/ESC/R3/USEPA/US @EPA, Judy Snyder/ESC/R3/USEPA/US @EPA, Khin-Cho Thaung/ESC/R3/USEPA/US @EPA, Ruth-Ann Donovan/ESC/R3/USEPA/U S@EPA, Victor Yastrop/ESC/R3/USEPA/US @EPA
	[IM AG E] Subject		[IMAGE] Re: R32697 Data
	[IMAGE]		[IMAGE]

Tonya:

The original request (attached) included the request for thorium analyses and was apparently overlooked in the followup paperwork. These are required, and we would appreciate if this can be completed at this time.

Thank you,

John Kwedar
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Show details for Tonya Hudson/MTG/USEPA/US
Hide details for Tonya Hudson/MTG/USEPA/US

Tony a Hudson/ MT G/U SEP A/U S 10/1 0/20 07 04:3 7 PM	[IMAGE] To	[IMAGE] John Kwedat/ESC/R3/USEPA/US @EPA
	[IMAGE] cc	[IMAGE] Annette Lage/ESC/R3/USEPA/US@E PA, Dan Slizys/ESC/R3/USEPA/US@ EPA, John Kwedat/ESC/R3/USEPA/US @EPA, Judy Snyder/ESC/R3/USEPA/US@ EPA, Khin-Cho Thaung/ESC/R3/USEPA/US @EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US @EPA, Victor Yastrop/ESC/R3/USEPA/US @EPA
	[IMAGE] Subject	[IMAGE] Re: R32697 Data
	[IMAGE]	[IMAGE]

Is this the group of samples we analyzed for you earlier this year? If this is the group in question, thorium analysis was not checked on the NAREL PAF. Therefore no thorium analyses were performed.

I am attaching the PAF for the samples collected and shipped earlier this year.

Also attached are text files containing the e-data for SDG 0700006, 0700008, 0700009, and 0700010 and all the data packages for these SDGs.

Please let me know if this is not the group in question, and I will investigate further. If it is, we

do still have the samples and can perform the analyses if needed.

Thanks,
Tonya

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334-270-3433

Fax 334-270-3454

hudson.tonya@epa.gov

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Hide details for John Kwedar/ESC/R3/USEPA/USJohn Kwedar/ESC/R3/USEPA/US

John Kwedar/ESC/R3/USEPA/US 10/10/2007 01:49 PM	[IMAGE] To	[IMAGE] Tonya Hudson/MTG/USEPA/US@EPA
	[IMAGE] cc	[IMAGE] Annette Lage/ESC/R3/USEPA/US@EPA, Dan Slizys/ESC/R3/USEPA/US@EPA, John Kwedar/ESC/R3/USEPA/US@EPA, Khin-Cho Thaung/ESC/R3/USEPA/US@EPA, Ruth-Ann Donovan/ESC/R3/USEPA/US@EPA, Judy Snyder/ESC/R3/USEPA/US@EPA, Victor Yastrop/ESC/R3/USEPA/US@EPA
	[IMAGE] Subject	[IMAGE] R32697 Data
	[IMAGE]	[IMAGE]

Thorium data for all SDGs for R32697as well as their respective EDD's has been according to our records not yet received. Could you please review the whereabouts of such? If they have been sent, could you please resend?

Thank you,

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(b) (4)
[redacted]@tetrattech.c
om>
10/31/2007 09:06 AM

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From: Sloboda, Russell
Sent: Tuesday, October 30, 2007 4:47 PM
To: (b) (4)
Subject: RE: Fw: R32697 Data -Additionally R32761 & R32831

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John
Kwedat/ESC/R3/US
EPA/US

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----- Forwarded by John Kwedar/ESC/R3/USEPA/US on 10/29/2007 11:25 AM -----

**Tony
a
Huds
on/M
TG/U
SEPA
/US**

10/29
/2007
10:27
AM

ToJohn Kwedar/ESC/R3/USEPA/US@EPA
ccAnnette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Fred
Foreman/ESC/R3/USEPA/US@EPA, Judy
Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho
Thaung/ESC/R3/USEPA/US@EPA, Mitch Cron/R3/USEPA/US@EPA,
Robin Faux-Williams/R3/USEPA/US@EPA, Ruth-Ann
Donovan/ESC/R3/USEPA/US@EPA, Sidney
Ozer/R3/USEPA/US@EPA, Victor Yastrop/ESC/R3/USEPA/US@EPA

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John Kwedar/ESC/R3/USEPA/US

John Kwedar/ESC/R3/USEPA/US

John
Kwedar/ESC/
R3/US
EPA/US

10/22/2007
10:25
AM

ToRobin Faux-Williams/R3/USEPA/US@EPA

ccAnnette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Fred
Foreman/ESC/R3/USEPA/US@EPA, Judy
Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho
Thaung/ESC/R3/USEPA/US@EPA, Mitch
Cron/R3/USEPA/US@EPA, Ruth-Ann
Donovan/ESC/R3/USEPA/US@EPA, Sidney
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Robin Faux-Williams/R3/USEPA/US

Robin Faux-Williams/R3/USEPA/US

Robin
Faux-Wi
lliams/R
3/USEP
A/US

10/22/20
07 11:06
AM

To John Kwedar/ESC/R3/USEPA/US@EPA

cc Annette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Fred
Foreman/ESC/R3/USEPA/US@EPA, Judy
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Donovan/ESC/R3/USEPA/US@EPA, Sidney
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Yastrop/ESC/R3/USEPA/US@EPA

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Hi John. The funding has arrived for Safety Light. Is \$670K still the number? Let me know. I will complete the PR once I hear from you.

Robin

John Kwedar/ESC/R3/USEPA/US

John Kwedar/ESC/R3/USEPA/US

John
Kweda
r/ESC/
R3/US
EPA/U
S

10/11/2
007
10:33
AM

To Tonya Hudson/MTG/USEPA/US@EPA

cc Annette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Judy
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Yastrop/ESC/R3/USEPA/US@EPA, Mitch
Cron/R3/USEPA/US@EPA, Sidney Ozer/R3/USEPA/US@EPA,
Robin Faux-Williams/R3/USEPA/US@EPA, Fred
Foreman/ESC/R3/USEPA/US@EPA

Subject

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Tonya Hudson/MTG/USEPA/US

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Hudson/MTG/US
EPA/US

10/11/
2007

ToJohn Kwedar/ESC/R3/USEPA/US@EPA

ccAnnette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Judy
Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho
Thaung/ESC/R3/USEPA/US@EPA, Ruth-Ann
Donovan/ESC/R3/USEPA/US@EPA, Victor
Yastrop/ESC/R3/USEPA/US@EPA

10:02
AM

SubjectRe: R32697 Data

John,

All three of the actinides analysts currently have samples assigned to them. I will go ahead and assign these to them so they can start as soon as they finish their other batches.

Tonya

Tonya Hudson
334-270-3433
Fax 334-270-3454
hudson.tonya@epa.gov

John Kwedar/ESC/R3/USEPA/US

John Kwedar/ESC/R3/USEPA/US

John
Kwedar/
ESC/
R3/US
EPA/US

10/11/2
007
05:23
AM

ToTonya Hudson/MTG/USEPA/US@EPA

ccAnnette Lage/ESC/R3/USEPA/US@EPA, Dan
Slizys/ESC/R3/USEPA/US@EPA, Judy
Snyder/ESC/R3/USEPA/US@EPA, Khin-Cho
Thaung/ESC/R3/USEPA/US@EPA, Ruth-Ann
Donovan/ESC/R3/USEPA/US@EPA, Victor
Yastrop/ESC/R3/USEPA/US@EPA

SubjectRe: R32697 Data

Tonya:

The original request (attached) included the request for thorium analyses and was apparently overlooked in the followup paperwork. These are required, and we would appreciate if this can be completed at this time.

Thank you,

John Kwedar
Client Services Team-ASQAB
EPA Region III
701 Mapes Road
Ft. Meade, MD 20755-5350
410-305-3021(voice)
410-305-3095(fax)
kwedar.john@epa.gov

Tonya Hudson/MTG/USEPA/US

Tonya Hudson/MTG/USEPA/US

Tony

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Huds

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SEPA

/US

10/10/

2007

04:37

PM

To John Kwedar/ESC/R3/USEPA/US@EPA

cc Annette Lage/ESC/R3/USEPA/US@EPA, Dan

Slizys/ESC/R3/USEPA/US@EPA, John

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Thaung/ESC/R3/USEPA/US@EPA, Ruth-Ann

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Subject: Re: R32697 Data

Is this the group of samples we analyzed for you earlier this year? If this is the group in question, thorium analysis was not checked on the NAREL PAF. Therefore no thorium analyses were performed.

I am attaching the PAF for the samples collected and shipped earlier this year.

Also attached are text files containing the e-data for SDG 07000006, 07000008, 07000009, and 07000010 and all the data packages for these SDGs.

Please let me know if this is not the group in question, and I will investigate further. If it is, we do still have the samples and can perform the analyses if needed.

Thanks,

Tonya

Tonya Hudson

334-270-3433

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John Kwedar/ESC/R3/USEPA/US

John
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ESC/
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EPA/US

10/10/2
007
01:49
PM

To: Tonya Hudson/MTG/USEPA/US@EPA

cc: Annette Lage/ESC/R3/USEPA/US@EPA, Dan
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Subject: R32697 Data

Thorium data for all SDGs for R32697 as well as their respective EDD's has been according to our records not yet received. Could you please review the whereabouts of such? If they have been sent, could you please resend?

Thank you,

John Kwedar
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